

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	347	paint near4 (micron)	USPAT	OR	ON	2006/01/05 19:17
L2	1988	paint near4 ("15" microns)	USPAT	OR	ON	2006/01/05 19:17
L3	15	paint near4 ("15" adj microns)	USPAT	OR	ON	2006/01/05 19:17
L4	0	(aqueous near4 paint) near6 ("15" adj microns)	USPAT	OR	ON	2006/01/05 19:18
L5	0	(aqueous near4 paint) near6 ("25" adj microns)	USPAT	OR	ON	2006/01/05 19:18
L6	0	((aqueous or water) near4 paint) near6 ("25" adj microns)	USPAT	OR	ON	2006/01/05 19:19
L7	0	((aqueous or water) near4 paint) near6 ("15" adj microns)	USPAT	OR	ON	2006/01/05 19:20
L8	0	((aqueous or water) near4 paint) near6 ("35" adj microns)	USPAT	OR	ON	2006/01/05 19:20
L9	0	((aqueous or water) near4 paint) near6 ("45" adj microns)	USPAT	OR	ON	2006/01/05 19:20
L10	3	((aqueous or water) near4 paint) near6 ("50" adj microns)	USPAT	OR	ON	2006/01/05 19:25
L11	0	"5879440.pn"	USPAT	OR	ON	2006/01/05 19:24
L12	0	"5879440.pn"	USPAT	OR	ON	2006/01/05 19:24
L13	1	"5879440".pn.	USPAT	OR	ON	2006/01/05 19:24
L14	0	((aqueous or water) near4 paint) near6 ("100" adj microns)	USPAT	OR	ON	2006/01/05 19:25
L15	0	((aqueous or water) near4 paint) near6 ("150" adj microns)	USPAT	OR	ON	2006/01/05 19:25
L16	0	((aqueous or water) near4 paint) near6 ("75" adj microns)	USPAT	OR	ON	2006/01/05 19:25
L17	0	((aqueous or water) near4 paint) near6 ("45" adj microns)	USPAT	OR	ON	2006/01/05 19:25
L18	0	((aqueous or water) near4 paint) near6 ("60" or "70" or "80" or "90" or "110" or "120" or "125") adj microns)	USPAT	OR	ON	2006/01/05 19:26
L19	1	((aqueous or water) near4 paint) near6 ("450" adj microns)	USPAT	OR	ON	2006/01/05 19:27
L20	20	((aqueous or water) near4 paint) near6 (microns)	USPAT	OR	ON	2006/01/05 19:27

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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\* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 ACD predicted properties enhanced in  
REGISTRY/ZREGISTRY  
NEWS 4 OCT 03 MATHDI removed from STN  
NEWS 5 OCT 04 CA/Caplus-Canadian Intellectual Property Office  
(CIPO) added  
to core patent offices  
NEWS 6 OCT 13 New CAS Information Use Policies Effective October  
17, 2005  
NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the  
export/download  
of CAplus documents for use in third-party analysis  
and  
visualization tools  
NEWS 8 OCT 27 Free KWIC format extended in full-text databases  
NEWS 9 OCT 27 DIOGENES content streamlined  
NEWS 10 OCT 27 EPFULL enhanced with additional content  
NEWS 11 NOV 14 CA/Caplus - Expanded coverage of German academic  
research  
NEWS 12 NOV 30 REGISTRY/ZREGISTRY on STN(R) enhanced with  
experimental  
spectral property data  
NEWS 13 DEC 05 CASREACT(R) - Over 10 million reactions available  
NEWS 14 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE  
NEWS 15 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of  
TOXCENTER  
NEWS 16 DEC 14 CA/Caplus to be enhanced with updated IPC codes  
NEWS 17 DEC 16 MARPATprev will be removed from STN on December 31,  
2005  
NEWS 18 DEC 21 IPC search and display fields enhanced in CA/Caplus  
with the  
IPC reform  
NEWS 19 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in  
USPATFULL/USPAT2

NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT  
<http://download.cas.org/express/v8.0-Discover/>

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\* \*

FILE 'HOME' ENTERED AT 19:35:00 ON 05 JAN 2006

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'STNGUIDE' ENTERED AT 19:35:12 ON 05 JAN 2006

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Dec 30, 2005 (20051230/UP).

=> FIL HOME

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	0.27

FILE 'HOME' ENTERED AT 19:35:18 ON 05 JAN 2006

=> File Medline EMBASE Biosis Caplus  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.48

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 19:35:26 ON 05 JAN 2006

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=> s ((aqueous or water) (4A) paint) (6A) (microns)  
L1 2 ((AQUEOUS OR WATER) (4A) PAINT) (6A) (MICRONS)

=> d ll 1-2 bib ab

L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 1973:161014 CAPLUS  
DN 78:161014  
TI Small-particle dispersion coating composition  
IN Zola, John C.  
SO U.S., 7 pp.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 3

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
-----	-----	----	-----	-----
-----				
PI	US 3725089	A	19730403	US 1971-107865
19710119				
	DE 1519443	C3	19790104	DE 1962-Z9368
19620419				
	JP 51006175	B4	19760226	JP 1962-15460
19620420				
	US 3458328	A	19690729	US 1967-609769
19670117				
	US 3459544	A	19690805	US 1967-609789
19670117				
PRAI	US 1961-104211	A2	19610420	
	US 1967-609769	A2	19670117	

US 1967-609789            A3        19670117

US 1969-836227            A1        19690623

AB    Substantially odor-free coating composition, for sag- and wrinkle-resistant

      latex coatings and **paints** comprised colored **aq.** film

      former particles (<25 **microns**) dispersed in an aqueous dispersing phase, and optionally mixed with dispersion of other colors, or

larger

      particle sizes, and can be dried and applied to a surface, or water-.

      Thus, a film forming water-thinnable alkyd resin paint was prepared in 2

      parts. A white water thinnable resin base composition contained 42% solids

      Aroclon 580 [39291-16-2] resin 52.5, titanium dioxide [13463-67-7] 42.0,

      Tamol 731 anionic pigment dispersant 1.6, water 3.7, and Emulsive Co drier

      0.2 parts. The dispersion was prepared from preresin bases 48.7, Polymer

      1212A nonionic guar gum derivative 3.4, benonite colloidal clay (high swelling

      Na type) aqueous dispersion 14.6, improved by addition aqueous bentonite 10.0, and

      aqueous NH<sub>4</sub>HB407 3.3, and water 20.0 parts to give a brushable, white alkyd

      resin paint with good thioxotropic properties.

L1    ANSWER 2 OF 2    CAPLUS    COPYRIGHT 2006 ACS on STN

AN    1942:32483    CAPLUS

DN    36:32483

OREF 36:5033g-h

TI    Deviation of the hiding equation

AU    Battline, F.

SO    Paint, Oil and Chemical Review (1942), 104(No. 11), 9-10

      CODEN: POCRAK; ISSN: 0096-7521

DT    Journal

LA    Unavailable

AB    The hiding power of a pigment in paint is given by  $100 - k[1 - \frac{(n_2 - n_1)^2}{(n_2 + n_1)^2}]^2x$ , where  $x = (3.785WB.1015)/Ad$ ,  $k = 100$  minus

(n<sub>2</sub> -

the percentage of the light reflected from the vehicle surface,  $n_2$  and  $n_1$  are

the indexes of refraction of pigment and vehicle, resp.,  $W$  = number of lb. of

pigment contained in one gal. of paint,  $B$  = bulking of the pigment in gal.

per lb.,  $d$  = dimension of the average pigment grain in microns and  $A$  is the

area of spread per gal. of **paint** in **aq.**

**microns**. Calcns. of hiding power are shown for (1) anatase and

rutile  $\text{TiO}_2$  pigment of 0.5, 1.0 and  $2.0\mu$  particle size and for  
1, 2 and

3 lb. pigment per gal., (2)  $\text{ZnS}$ , (3) Pb chromate and (4)  
artificial Fe

oxide. The equation can be used to determine average particle  
size of pigments or  
n of pigments.

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	organophosphorus near6 paint	USPAT	OR	OFF	2006/01/05 18:03

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	organophosphorus near6 paint	USPAT	OR	OFF	2006/01/05 18:07
L2	33	(enzyme or Hydrolase or Lyase or Isomerase or Ligase or Esterase or phosphatase or paraoxonase or carboxylase or phosphotriesterase or proteinase or protease or peptidase or kinase or reductase or oxidase or transferase or lipase or ase or amylase or lysozyme or galactosidase or cellulase or trypsin or amidase) near6 paint	USPAT	OR	OFF	2006/01/05 18:08
L3	43	(enzyme or Hydrolase or Lyase or Isomerase or Ligase or Esterase or phosphatase or paraoxonase or carboxylase or phosphotriesterase or proteinase or protease or peptidase or kinase or reductase or oxidase or transferase or lipase or ase or amylase or lysozyme or galactosidase or cellulase or trypsin or amidase) near6 organophosphorus	USPAT	OR	OFF	2006/01/05 18:08
L4	0	I2 and I3	USPAT	OR	OFF	2006/01/05 18:08



Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	organophosphorus near6 paint	USPAT	OR	OFF	2006/01/05 18:07
L2	33	(enzyme or Hydrolase or Lyase or Isomerase or Ligase or Esterase or phosphatase or paraoxonase or carboxylase or phosphotriesterase or proteinase or protease or peptidase or kinase or reductase or oxidase or transferase or lipase or ase or amylase or lysozyme or galactosidase or cellulase or trypsin or amidase) near6 paint	USPAT	OR	OFF	2006/01/05 18:11
L3	43	(enzyme or Hydrolase or Lyase or Isomerase or Ligase or Esterase or phosphatase or paraoxonase or carboxylase or phosphotriesterase or proteinase or protease or peptidase or kinase or reductase or oxidase or transferase or lipase or ase or amylase or lysozyme or galactosidase or cellulase or trypsin or amidase) near6 organophosphorus	USPAT	OR	OFF	2006/01/05 18:09
L4	0	I2 and I3	USPAT	OR	OFF	2006/01/05 18:08
L5	2473	(enzyme or Hydrolase or Lyase or Isomerase or Ligase or Esterase or phosphatase or paraoxonase or carboxylase or phosphotriesterase or proteinase or protease or peptidase or kinase or reductase or oxidase or transferase or lipase or ase or amylase or lysozyme or galactosidase or cellulase or trypsin or amidase) near6 (toxic or toxin)	USPAT	OR	OFF	2006/01/05 18:09
L6	0	I2 and I5	USPAT	OR	OFF	2006/01/05 18:10
L7	0	I2 and (multi or plurality) near2 (layer or layers)	USPAT	OR	OFF	2006/01/05 18:11
L8	4307	paint and (multi or plurality) near2 (layer or layers)	USPAT	OR	OFF	2006/01/05 18:12
L9	212	paint near8(multi or plurality) near2 (layer or layers)	USPAT	OR	OFF	2006/01/05 18:12
L10	176	paint near6(multi or plurality) near2 (layer or layers)	USPAT	OR	OFF	2006/01/05 18:14
L11	159	paint near6((multi or plurality) near2 (layer or layers))	USPAT	OR	OFF	2006/01/05 18:14
L12	10	I11 and (containers or (containers) near2 (layer or layers))	USPAT	OR	OFF	2006/01/05 18:22

L13	8	l11 and (containers or (containers) near2 (layer or layers)) NOT (bake or baking or baked)	USPAT	OR	OFF	2006/01/05 18:26
L14	1	l11 and (containers or (containers) near2 (layer or layers)) NOT (bake or baking or baked or heat)	USPAT	OR	OFF	2006/01/05 18:27